Application No.: 10/667,808
Attorney Docket No: 14846-16

Reply Under 37 CFR 1.116
Expedited Procedure
Tech. Center: 2168

Amendments to the Claims:

The following listing of claims replaces all prior versions, and listings, of claims in the present application.

Listing of the Claims:

1. (previously presented) A method for use in a distributed processing system to specify an application service comprising:

defining a schema written in XML comprising a first operation having a plurality of arguments, the schema having a nested operation within said first operation;

validating the first operation's signature using said schema;

executing said first operation on a first processor in said distributed processing system in real time;

sending said nested operation to a second processor in the distributed processing system; and

executing said nested operation on said second processor in said distributed processing system in real time,

wherein said schema renders unaltered underlying function calls which define said first operation and said nested operation.

2. (currently amended) [[A]] The method in accordance with claim 1 further comprising validating the first operation's payload after validation of the contents of the payload.

3. (currently amended) [[A]] The method in accordance with claim 1 wherein defining a schema comprising a first operation having a plurality of arguments comprises defining a schema having a plurality of nested operations.

4. (currently amended) [[A]] The method in accordance with claim 3 wherein defining a schema comprising a first operation having a plurality of nested operations comprises defining a schema having one or more nested operations in one or more of said nested operations.

5. (currently amended) [[A]] The method in accordance with claim 2 wherein validating said schema further includes validating said nested operation.

6. (currently amended) [[A]] The method in accordance with claim 3 wherein validating said schema further includes validating said plurality of nested operations.

7. (currently amended) [[A]] The method in accordance with claim 4 wherein validating said schema further includes validating said one or more nested operations in one or more of said nested operations.

8. (currently amended) [[A]] The method in accordance with claim 1 further including the step of generating a program to perform the defined operations.

9. (currently amended) [[A]] The method in accordance with claim 1 further including the step of distributing operations to one or more members of the distributed system.

10. (currently amended) [[A]] The method in accordance with claim 9 wherein said step of defining a schema includes indicating one or more points where distributing operations is beneficial.

11. (cancelled)

12. (currently amended) [[A]] The method in accordance with claim 1 wherein said operation and said nested operation are calls from a client application to a service application.

13. (currently amended) [[A]] The method in accordance with claim 1 wherein said step of executing said operation further includes the steps of executing said operation at a first service application and executing said nested operation at a second service application.

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14. (currently amended) A method for use in a distributed processing system to specify an application service comprising:

defining a schema written in XML comprising a first operation having a plurality of arguments, the schema having a nested operation within said first operation, said first operation and said nested operation representing calls from a client application to a service application;

validating the first operation's signature using said schema;

executing said first operation on a first processor in said distributed processing system;

sending said nested operation to a second processor in the distributed processing system;

using said schema to generate a second program having an interface with grid management software, the second program and the grid management software being used to render the nested operation executable on said second processor; and

executing said nested operation on said second processor in said distributed processing system,

wherein said schema renders unaltered underlying function calls which define said first operation and said nested operation.

15. (currently amended) A method for use in a distributed processing system to specify an application service comprising:

defining a schema written in XML comprising a first operation having a plurality of arguments, the schema having a nested operation within said first operation;

validating the first operation's signature using said schema;

executing said first operation at a first service application on a first processor in said distributed processing system in real time;

sending the nested operation to a second processor in the distributed processing system from the first service application; and

executing said nested operation at a second service application on said second processor in said distributed processing system in real time, said first service becoming a client application for said second service application,

wherein said schema renders unaltered underlying function calls which define said first operation and said nested operation.